

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (currently amended) A data processing method performed by ~~a~~ means to be authenticated and authenticating means, ~~the means to be authenticated~~for holding first authentication use data generated by encryption using key data and ~~an~~the authenticating means ~~for~~ holding the key data, the method comprising:

~~a first step by which the means to be authenticated~~ provides providing key designation data designating the key data from the means to be authenticated to the authenticating means;

~~a second step by which the authenticating means performs~~ performing encryption at the authenticating means using the key data designated by the key designation data received at the first step to generate second authentication use data;

~~a third step by which the means to be authenticated uses~~ comparing the first authentication use data for authentication and ~~uses~~with the second authentication use data for authentication; and

~~a fourth step by which the authenticating means executes~~ executing processing related to the key data in the authenticating means when the authentication at the third step ~~decides~~ comparison determines that the first authentication use data and the second authentication use data are the same.

2. (currently amended) A data processing system, comprising:

~~a~~ means to be authenticated for holding first authentication use data generated by encryption using key data; and

~~an authenticating means for holding the key data,~~
wherein

the means to be authenticated provides key designation data designating the key data to the authenticating means,

the authenticating means performs encryption using the ~~key data designated by the key designation data received from the means to be authenticated~~ to generate second authentication use data,

the means to be authenticated uses the first authentication use data for authentication and the authenticating means uses the second authentication use data for authentication, and

the authenticating means executes ~~the processing related to the key data when the authentication decides that the first authentication use data and the second authentication use data are the same.~~

3. (currently amended) A data processing method wherein which an authenticating means holding predetermined key data performs an authentication process together with a means to be authenticated holding first authentication use data generated by encryption using the key data, the method comprising:

~~a first step of receiving key designation data for designating the key data from the means to be authenticated;~~

~~a second step of generating second authentication use data by encryption using the key data designated by the key designation data received at the first step for encryption to generate second authentication use data;~~

~~a third step of using comparing the second authentication use data generated at the second step for authentication with the means to be authenticated using the first authentication use data for authentication; and~~

~~a fourth step of executing processing related to the key data when the authentication at the third step decides~~comparison determines that the first authentication use data and the second authentication use data are the same.

4. (currently amended) A data processing method as set forth in claim 3, ~~further comprising, in the fourth step,~~wherein the executing step includes executing the functions of the authenticating means authorized to the means to be authenticated related to the key data or accessing the data held by the authenticating means.

5. (currently amended) A data processing method as set forth in claim 3, ~~further comprising, when the authentication use data is generated by~~wherein the generating step includes generating the second authentication use data using a plurality of different key data, in the fourth step, and the executing step includes executing a plurality of processings related to the plurality of different key data.

6. (currently amended) A data processing method as set forth in claim 5, ~~further comprising, in the fourth step,~~wherein the executing step includes executing a plurality of processings including the functions of the authenticating means and accessing ~~to~~ the data held by the authenticating means relating to the plurality of different key data.

7. (currently amended) A data processing method as set forth in claim 3, ~~further comprising, in the fourth step,~~wherein the executing step includes accessing the plurality of data modules related to single key data when the authenticating means holds a plurality of data modules as data.

8. (currently amended) A data processing method as set forth in claim 3, ~~further comprising, in the first step,~~ wherein the receiving step includes receiving the key designation data read by a device of the means to be authenticated from an integrated circuit holding the first authentication use data and the key designation data.

9. (currently amended) A data processing method as set forth in claim 3, wherein the first authentication use data is data generated by encrypting predetermined data ~~by using the~~ key data.

10. (currently amended) A data processing method as set forth in claim 9, wherein the first authentication use data is data generated by encrypting data obtained by encrypting the predetermined data ~~by using the~~ key data by further using tamper-proofing key data managed by the ~~management side~~ means to be authenticated.

11. (currently amended) A data processing system holding predetermined key data for use in an authentication process with a means to be authenticated holding first authentication use data generated by encryption using ~~the predetermined key data and holding the key data,~~ the data processing system comprising:

~~an inputting~~ means for inputting key designation data for designating the key data from the means to be authenticated;

~~an authenticating~~ means for generating second authentication use data by encryption using the key data designated by the key designation data received by the inputting means for encryption to generate second authentication use data and using for comparing the second authentication use data for

~~authentication with the means to be authenticated using the first authentication use data for authentication; and~~

~~a controlling means for executing processing related to the key data when the authentication comparison by the authenticating means decidesdetermines that the first authentication use data and the second authentication use data are the same.~~

12. (currently amended) A program ~~for causing to be executed by~~ a data processing system holding predetermined key data to execute an~~for~~ authentication process with a means to be authenticated holding first authentication use data generated by encryption using ~~the~~predetermined key data ~~and holding the predetermined key data,~~ the authentication process comprising:

~~a first routine of receiving key designation data for designating the key data from the means to be authenticated;~~

~~a second routine of generating second authentication use data by encryption using the key data designated by the key designation data received by the first routine to generate second authentication use data;~~

~~a third routine of using~~comparing the second authentication use data generated by the second routine for authentication with the means to be authenticated using the first authentication use data ~~for authentication; and~~

~~a fourth routine of executing processing related to the key data when the authentication in the third routine decidescomparison determines that the first authentication use data and the second authentication use data are the same.~~

13. (currently amended) A data processing method performed by a means to be authenticated, ~~when an authenticating means holding key data uses key data designated from the means to be authenticated holding the first authentication use data~~

~~for~~generated by encryption using key data to generate second authentication use data, uses the second authentication use data for authentication with the means to be authenticated, and performs processing related to the key data conditional on the authentication confirming that the first authentication use data and the second authentication use data are the same, the method comprising:

~~a first step of providing key designation data for designating the key data used when to generating the first authentication use data based on the predetermined generation method to the authenticating means,~~ the authenticating means using the designated key data to generate second authentication use data;

~~a second step of using the first authentication use data for in an authentication process in which with the authenticating means~~ uses the second authentication use data;
and

~~a third step of making~~causing the authenticating means ~~perform to execute~~ processing related to the key data based on the results of the authentication at ~~the second step~~process.

14. (original) A data processing method as set forth in claim 13, wherein the means to be authenticated reads and holds the first authentication use data and the key designation data from a predetermined integrated circuit.

15. (currently amended) A data processing method as set forth in claim 13, ~~further comprising, in the third step, making~~wherein the causing step includes causing the authenticating means to execute the functions of the authenticating means authorized to the means to be authenticated related to the key data or accessing the data held by the authenticating means.

16. (currently amended) A data processing method as set forth in claim 13, ~~wherein further comprising, when defining a group comprising~~

the authenticating means includes a plurality of authenticating means,

~~in the first step, the providing step includes collectively providing the key designation data to the group~~plurality of authenticating means, and,

~~in the third step, the causing step includes collectively making~~causing the groupplurality of authenticating means to perform the processings related to the key data.

17. (currently amended) A data processing method as set forth in claim 13, ~~further comprising a fourth step of providing a screen displaying an image corresponding to the authenticating means for performing the processing by using a plurality of different patterns in accordance with the~~an
operation state of the authenticating means.

18. (currently amended) A data processing method as set forth in claim 17, ~~further comprising, in the fourth step, wherein the screen providing step includes providing a screen displaying an image corresponding to the authenticating means by a pattern enabling identification~~determination of whether or not the authenticating means already has confirmed the legitimacyauthenticityof the means to be authenticated by the authentication in the second stepprocess.

19. (currently amended) A data processing system ~~forming a means to be authenticated when an authenticating means holding key data uses key data designated from the means to be authenticated~~holding the first authentication use data

~~for~~generated by encryption using key data, the first authentication use data being for use in an authentication process with an authenticating means~~to generate second authentication use data, uses the second authentication use data for authentication with the means to be authenticated, and performs processing related to the key data conditional on the authentication confirming that the first authentication use data and the second authentication use data are the same, the data processing system comprising:~~

~~a first means for providing key designation data for designating the key data used when~~to generate the first authentication use data based on the predetermined generation method to the authenticating means, the authenticating means using the designated key data to generate second authentication use data;

~~a second means for using the first authentication use data for~~in an authentication process with in which the authenticating means uses the second authentication use data;
and

~~a third means for making~~causing the authenticating means perform to execute processing related to the key data based on the results of the authentication of the second means~~process.~~

20. (currently amended) A program ~~for causing to be executed by a data processing system forming a means to be authenticated when an authenticating means holding key data uses key data designated from the means to be authenticated holding the first authentication use data~~for generated by encryption to generate second authentication use data, uses the second authentication use data for authentication with the means to be authenticated, and performs processing related to the key data conditional on the authentication confirming that the first

~~authentication use data and the second authentication use data~~
~~are the same~~using key data to execute an authentication process
with authenticating means, the authentication process
comprising:

~~a first routine of providing key designation data~~
~~for designating the key data used when to generating~~the first
~~authentication use data based on the predetermined generation~~
~~method to the authenticating means, the authenticating means~~
using the designated key data to generate second authentication
data;

~~a second routine of using the first~~
~~authentication use data for authentication~~in a comparison with
~~the authenticating means~~second authentication use data; and

~~a third routine of making~~causing the
authenticating means ~~perform~~to execute processing related to the
key data based on the results of the ~~authentication of the~~
~~second means~~comparison.